Journal of Biomedical Materials Research (Applied Biomaterials) Author Index to Volume 48

Agrawal, C. M. See Landry, M. E., 61
Aloisi, A. M. See Barbucci, R., 9
Amis, A. A.
—; Kempson, S. A.: Failure Mechanisms of Polyester Fiber Anterior Cruciate Ligament Implants: A Human Retrieval and Laboratory Study, 534
Anderson, P. L. See Battraw, G. A., 32
Andriano, K. P.
—; Tabata, Y.; Ikada, Y.; Heller, J.: *In Vitro* and *In Vivo* Comparison of Bulk and Surface Hydrolysis in Absorbable Polymer Scaffolds for Tissue Engineering, 602
—; Wenger, K. H.; Daniels, A. U.; Heller, J.: Technical Note: Biomechanical Analysis of Two Absorbable Fracture Fixation Pins After Long-Term Canine Implantation, 528
Antero Mäkelä, E. See Heino, A., 596
Aoyama, E. See Tomita, N., 474
Arand, M. See Claes, L., 82
Arokoski, J. P. A.
—; Hyttinen, M. M.; Helminen, H. J.; Jurvelin, J. S.: Biomechanical and Structural Characteristics of Canine Femoral and Tibial Cartilage, 99
Aspenberg, P. See Trindade, M. C. D., 434
Atsuta, M. See Taira, Y., 697
—; See Yoshida, K., 778
Attawia, M. A.
—; Herbert, K. M.; Uhrich, K. E.; Langer, R.; Laurencin, C. T.: Proliferation, Morphology, and Protein Expression by Osteoblasts Cultured on Poly(anhydride-*co*-imides), 322

Baba, K. See Yoshida, K., 778
Baba, N. See Taira, Y., 697
Balmain, J.
—; Hannoyer, B.; Lopez, E.: Fourier Transform Infrared Spectroscopy (FTIR) and X-Ray Diffraction Analyses of Mineral and Organic Matrix During Heating of Mother of Pearl (Nacre) from the Shell of the Mollusc *Pinctada maxima*, 749
Baltzer, N. See Fischer, J., 258
Barbucci, R.
—; Lamponi, S.; Aloisi, A. M.: Effect of Behavioral Stress on Platelet Reactivity on Polymeric Surfaces, 9
Barker, T. M. See Chen, C. Q. L., 440
Batt, M. See Eberhart, A., 546
Battraw, G. A.
—; Szivek, J. A.; Anderson, P. L.: Bone Bonding Strength of Calcium Phosphate Ceramic Coated Strain Gauges, 32
Beatty, M. W. See Jia, W., 488
Beauregard, G. P. See James, S. P., 374
Bebelman, S. See Pianelli, C., 675
Beiler, R. J. See Loebsack, A. B., 504
Benya, P. See Lu, Z., 458
Benya, P. D. See Liao, Y.-S., 465
Benzina, A. See Hanssen, H. H. L., 820
Bienvenu, J.-G. See Trépanier, C., 165
Bilodeau, L. See Trépanier, C., 165
Black, J. See Jacobs, J. J., 385
—, See Skipor, A. K., 90
Blanchard, C. R. See Landry, M. E., 61
Boswell, C. A.
—; Noecker, R. J.; Mac, M.; Snyder, R. W.; Williams, S. K.: Evaluation of an Aqueous Drainage Glaucoma Device Constructed of ePTFE, 591
Bowles, C. Q.
—; Miller, R. G.; Chappelow, C. C.; Pinzino, C. S.; Eick, J. D.: Design, Formulation, and Evaluation of Isocyanatoacrylate Copolymer Dental Adhesives, 496
Brandegee, B. See Kossovsky, N., 1
Brekke, J. H.
—; Toth, J. M.: Erratum, 95
Brown, M. K. C. See Schroeder, J. A., 309
Burg, K. J. L. See Loebsack, A. B., 504
Burger, E. H. See Groeneveld, E. H. J., 393
Burgess, A. V. See Story, B. J., 841
Burpee, S. See Kim, S. H., 669
Bush, R. B.
—; A Bibliography of Monographic Works on Biomaterials and Biocompatibility: Update II, 335

Cady, R. B.
—; Siegel, J. A.; Mathien, G.; Spadaro, J. A.; Chase, S. E.: Physeal Response to Absorbable Polydioxanone Bone Pins in Growing Rabbits, 211
Caplan, A. I. See Ohgushi, H., 913
Catanese, J., III
—; Cooke, D.; Maas, C.; Pruitt, L.: Mechanical Properties of Medical Grade Expanded Polytetrafluoroethylene: The Effects of Internodal Distance, Density, and Displacement Rate, 187
Chan, E.-C. See Liu, S.-J., 613
Chang, C.-S.
—; Su, C.-Y.; Lin, T.-C.: Scanning Electron Microscopy Observation of Vascularization Around Hydroxyapatite Using Vascular Corrosion Casts, 411
Chappelow, C. C. See Bowles, C. Q., 496
Chase, S. E. See Cady, R. B., 211
Chauvaud, D. See Korobelnik, J. F., 807
Chen, C. Q. L.
—; Scott, W.; Barker, T. M.: Effect of Metal Surface Topography on Mechanical Bonding at Simulated Total Hip Stem–Cement Interfaces, 440
Chen, F. S.
—; Scher, D. M.; Clancy, R. M.; Vera-Yu, A.; Di Cesare, P. E.: *In Vitro* and *In Vivo* Activation of Polymorphonuclear Leukocytes in Response to Particulate Debris, 904
Chen, J.-H.
—; Laiw, R.-F.; Jiang, S.-F.; Lee, Y.-D.: Microporous Segmented Polyetherurethane Vascular Graft: I. Dependency of Graft Morphology and Mechanical Properties on Compositions and Fabrication Conditions, 235
Chen, L.-Y. See Young, T.-H., 159
Cheng, C.-K. See Young, T.-H., 159
Chittur, K. K. See Haman, J. D., 856
Chłopek, J. See Lewandowska-Szumieł, M., 289
Choi, Y. S.
—; Hong, S. R.; Lee, Y. M.; Song, K. W.; Park, M. H.; Nam, Y. S.: Studies on Gelatin-Containing Artificial Skin: II. Preparation and Characterization of Cross-Linked Gelatin-Hyaluronate Sponge, 631
Chun, L.
—; Yoon, J.; Song, Y.; Huie, P.; Regula, D.; Goodman, S.: The Characterization of Macrophages and Osteoclasts in Tissues Harvested from Revised Total Hip Prostheses, 899
Claes, L.
—; Schultheiss, M.; Wolf, S.; Wilke, H.-J.; Arand, M.; Kinzl, L.: A New Radiolucent System for Vertebral Body Replacement: Its Stability in Comparison to Other Systems, 82
Clancy, R. M. See Chen, F. S., 904
Clemens, J. A. M.
—; Wolke, J. G. C.; Klein, C. P. A. T.; de Groot, K.: Fatigue Behavior of Calcium Phosphate Coatings with Different Sta-

Journal of Biomedical Materials Research (Applied Biomaterials) Author Index to Volume 48

Agrawal, C. M. See Landry, M. E., 61
Aloisi, A. M. See Barbucci, R., 9
Amis, A. A.
—; Kempson, S. A.: Failure Mechanisms of Polyester Fiber Anterior Cruciate Ligament Implants: A Human Retrieval and Laboratory Study, 534
Anderson, P. L. See Battraw, G. A., 32
Andriano, K. P.
—; Tabata, Y.; Ikada, Y.; Heller, J.: *In Vitro* and *In Vivo* Comparison of Bulk and Surface Hydrolysis in Absorbable Polymer Scaffolds for Tissue Engineering, 602
—; Wenger, K. H.; Daniels, A. U.; Heller, J.: Technical Note: Biomechanical Analysis of Two Absorbable Fracture Fixation Pins After Long-Term Canine Implantation, 528
Antero Mäkelä, E. See Heino, A., 596
Aoyama, E. See Tomita, N., 474
Arand, M. See Claes, L., 82
Arokoski, J. P. A.
—; Hyttinen, M. M.; Helminen, H. J.; Jurvelin, J. S.: Biomechanical and Structural Characteristics of Canine Femoral and Tibial Cartilage, 99
Aspenberg, P. See Trindade, M. C. D., 434
Atsuta, M. See Taira, Y., 697
—; See Yoshida, K., 778
Attawia, M. A.
—; Herbert, K. M.; Uhrich, K. E.; Langer, R.; Laurencin, C. T.: Proliferation, Morphology, and Protein Expression by Osteoblasts Cultured on Poly(anhydride-*co*-imides), 322

Baba, K. See Yoshida, K., 778
Baba, N. See Taira, Y., 697
Balmain, J.
—; Hannoyer, B.; Lopez, E.: Fourier Transform Infrared Spectroscopy (FTIR) and X-Ray Diffraction Analyses of Mineral and Organic Matrix During Heating of Mother of Pearl (Nacre) from the Shell of the Mollusc *Pinctada maxima*, 749
Baltzer, N. See Fischer, J., 258
Barbucci, R.
—; Lamponi, S.; Aloisi, A. M.: Effect of Behavioral Stress on Platelet Reactivity on Polymeric Surfaces, 9
Barker, T. M. See Chen, C. Q. L., 440
Batt, M. See Eberhart, A., 546
Battraw, G. A.
—; Szivek, J. A.; Anderson, P. L.: Bone Bonding Strength of Calcium Phosphate Ceramic Coated Strain Gauges, 32
Beatty, M. W. See Jia, W., 488
Beauregard, G. P. See James, S. P., 374
Bebelman, S. See Pianelli, C., 675
Beiler, R. J. See Loebsack, A. B., 504
Benya, P. See Lu, Z., 458
Benya, P. D. See Liao, Y.-S., 465
Benzina, A. See Hanssen, H. H. L., 820
Bienvenu, J.-G. See Trépanier, C., 165
Bilodeau, L. See Trépanier, C., 165
Black, J. See Jacobs, J. J., 385
—, See Skipor, A. K., 90
Blanchard, C. R. See Landry, M. E., 61
Boswell, C. A.
—; Noecker, R. J.; Mac, M.; Snyder, R. W.; Williams, S. K.: Evaluation of an Aqueous Drainage Glaucoma Device Constructed of ePTFE, 591
Bowles, C. Q.
—; Miller, R. G.; Chappelow, C. C.; Pinzino, C. S.; Eick, J. D.: Design, Formulation, and Evaluation of Isocyanatoacrylate Copolymer Dental Adhesives, 496
Brandegee, B. See Kossovsky, N., 1
Brekke, J. H.
—; Toth, J. M.: Erratum, 95
Brown, M. K. C. See Schroeder, J. A., 309
Burg, K. J. L. See Loebsack, A. B., 504
Burger, E. H. See Groeneveld, E. H. J., 393
Burgess, A. V. See Story, B. J., 841
Burpee, S. See Kim, S. H., 669
Bush, R. B.
—; A Bibliography of Monographic Works on Biomaterials and Biocompatibility: Update II, 335

Cady, R. B.
—; Siegel, J. A.; Mathien, G.; Spadaro, J. A.; Chase, S. E.: Physeal Response to Absorbable Polydioxanone Bone Pins in Growing Rabbits, 211
Caplan, A. I. See Ohgushi, H., 913
Catanese, J., III
—; Cooke, D.; Maas, C.; Pruitt, L.: Mechanical Properties of Medical Grade Expanded Polytetrafluoroethylene: The Effects of Internodal Distance, Density, and Displacement Rate, 187
Chan, E.-C. See Liu, S.-J., 613
Chang, C.-S.
—; Su, C.-Y.; Lin, T.-C.: Scanning Electron Microscopy Observation of Vascularization Around Hydroxyapatite Using Vascular Corrosion Casts, 411
Chappelow, C. C. See Bowles, C. Q., 496
Chase, S. E. See Cady, R. B., 211
Chauvaud, D. See Korobelnik, J. F., 807
Chen, C. Q. L.
—; Scott, W.; Barker, T. M.: Effect of Metal Surface Topography on Mechanical Bonding at Simulated Total Hip Stem–Cement Interfaces, 440
Chen, F. S.
—; Scher, D. M.; Clancy, R. M.; Vera-Yu, A.; Di Cesare, P. E.: *In Vitro* and *In Vivo* Activation of Polymorphonuclear Leukocytes in Response to Particulate Debris, 904
Chen, J.-H.
—; Laiw, R.-F.; Jiang, S.-F.; Lee, Y.-D.: Microporous Segmented Polyetherurethane Vascular Graft: I. Dependency of Graft Morphology and Mechanical Properties on Compositions and Fabrication Conditions, 235
Chen, L.-Y. See Young, T.-H., 159
Cheng, C.-K. See Young, T.-H., 159
Chittur, K. K. See Haman, J. D., 856
Chłopek, J. See Lewandowska-Szumieł, M., 289
Choi, Y. S.
—; Hong, S. R.; Lee, Y. M.; Song, K. W.; Park, M. H.; Nam, Y. S.: Studies on Gelatin-Containing Artificial Skin: II. Preparation and Characterization of Cross-Linked Gelatin-Hyaluronate Sponge, 631
Chun, L.
—; Yoon, J.; Song, Y.; Huie, P.; Regula, D.; Goodman, S.: The Characterization of Macrophages and Osteoclasts in Tissues Harvested from Revised Total Hip Prostheses, 899
Claes, L.
—; Schultheiss, M.; Wolf, S.; Wilke, H.-J.; Arand, M.; Kinzl, L.: A New Radiolucent System for Vertebral Body Replacement: Its Stability in Comparison to Other Systems, 82
Clancy, R. M. See Chen, F. S., 904
Clemens, J. A. M.
—; Wolke, J. G. C.; Klein, C. P. A. T.; de Groot, K.: Fatigue Behavior of Calcium Phosphate Coatings with Different Sta-

bility Under Dry and Wet Conditions, 741
Cohen, D. M. See Jia, W., 488
Cooke, D. See Catanese, J., III, 187
Cox, M. J. See Neal, J. G., 24
Crawmer, D. E. See Haman, J. D., 856
Cuadrado, T. R. See Vallo, C. I., 150
Culberson, C. R. See Loebsack, A. B., 504

Daniau, X. See Stanislawski, L., 277
Daniels, A. U. See Andriano, K. P., 528
Deb, S.
—; Di Silvio, L.; Vazquez, B.; San Roman, J.: Water Absorption Characteristics and Cytotoxic and Biological Evaluation of Bone Cements Formulated with a Novel Activator, 719
de Groot, K. See Clemens, J. A. M., 741
De La Faye, D. See Eberhart, A., 546
Denry, I. L.
—; Holloway, J. A.; Tarr, L. A.: Effect of Heat Treatment on Microcrack Healing Behavior of a Machinable Dental Ceramic, 791
Devaux, J. See Pianelli, C., 675
D'Hermies, F. See Korobelnik, J. F., 807
Di Cesare, P. E. See Chen, F. S., 904
Di Silvio, L. See Deb, S., 719
Drummond, J. L. See Shin, M. A., 540
Ducourneau, D. See Korobelnik, J. F., 807

Eberhart, A.
—; Zhang, Z.; Guidoin, R.; Laroche, G.; Guay, L.; De La Faye, D.; Batt, M.; King, M. W.: A New Generation of Polyurethane Vascular Prostheses: Rara Avis or Ignis Fatuus? 546
Edidin, A. A. See Kurtz, S. M., 75
Edlich, R. F.
—; Suber, F.; Neal, J. G.; Jackson, E. M.; Williams, F. M.: Integrity of Powder-Free Examination Gloves to Bacteriophage Penetration, 755
—; See Fisher, M. D., 199, 797
—; See Jackson, E. M., 193, 572
—; See Neal, J. G., 24
—; See Reddy, V. R., 569
—; See Tadje, J. P., 479
Eick, J. D. See Bowles, C. Q., 496
Elfick, A. P. D.
—; Hall, R. M.; Pinder, I. M.; Unsworth, A.: The Influence of Femoral Head Surface Roughness on the Wear of Ultrahigh Molecular Weight Polyethylene Sockets in Cementless Total Hip Replacement, 712
Eliades, G. See Magnissalis, E. A., 365
Eliades, T. See Magnissalis, E. A., 365
Ellefterion, A. See Gineste, L., 224
Erkmen, Z. E.
—; The Effect of Heat Treatment on the Morphology of D-Gun Sprayed Hydroxyapatite Coatings, 861
Esposito, M.
—; Lausmaa, J.; Hirsch, J.-M.; Thomsen, P.: Surface Analysis of Failed Oral Titanium Implants, 559

Fanovich, M. A. See Vallo, C. I., 150
Filiaggi, M. J. See Kirk, P. B., 424
Fini, M. See Orienti, L., 216
Fischer, J.
—; Baltzer, N.; Fleetwood, P. W.: Thermal Creep Analysis of Noble Metal Alloys for the Ceramic-Fused-to-Metal Technique, 258
Fisher, M. D.
—; O'Keefe, J. S.; Williams, F. M.; Neal, J. G.; Syverud, S. A.; Edlich, R. F.: Failure of a New Double Glove Hole Detection System in the Emergency Department, 199
—; Reddy, V. R.; Williams, F. M.; Lin, K. Y.; Thacker, J. G.; Edlich, R. F.: Biomechanical Performance of Latex and Non-Latex Double-Glove Systems, 797
—; See Reddy, V. R., 569
Fleetwood, P. W. See Fischer, J., 258
Foulds, J. R. See Kurtz, S. M., 75
Frayssinet, P. See Gineste, L., 224
Frondoza, C. See Jones, L. C., 889
Fujita, H.
—; Iida, H.; Kawanabe, K.; Okada, Y.; Oka, M.; Masuda, T.; Kitamura, Y.; Nakamura, T.: Pressurization of Bioactive Bone Cement *In Vitro*, 43
—; See Mousa, W. F., 726
—; See Nishiguchi, S., 689

Galante, J. O. See Jacobs, J. J., 385
Geurtsen, W.
—; Spahl, W.; Müller, K.; Leyhausen, G.: Aqueous Extracts from Dentin Adhesives Contain Cytotoxic Chemicals, 772
Giardino, R. See Orienti, L., 216
Giavaresi, G. See Orienti, L., 216
Gil, F. J.
—; Planell, J. A.: Effect of Copper Addition on the Superelastic Behavior of Ni-Ti Shape Memory Alloys for Orthodontic Applications, 682
—; See Vila, M. M., 121, 128
Ginebra, M. P. See Vila, M. M., 121, 128
Gineste, L.
—; Gineste, M.; Ranz, X.; Ellefterion, A.; Guilhem, A.; Rouquet, N.; Frayssinet, P.: Degradation of Hydroxylapatite, Fluorapatite, and Fluorhydroxyapatite Coatings of Dental Implants in Dogs, 224
Gineste, M. See Gineste, L., 224
Goldberg, E. P. See Marotta, J. S., 354
Goldberg, M. See Stanislawski, L., 277
Goñi, I. See Pascual, B., 447
Goodman, S. See Chun, L., 899
Goodman, S. B. See Lind, M., 246
—; See Trindade, M. C. D., 434
Green, C. W. See Tadje, J. P., 479
Greene, K. G. See Loebsack, A. B., 504
Grenman, R. See Stoor, P., 869
Groeneveld, E. H. J.
—; van den Bergh, J. P. A.; Holzmann, P.; ten Bruggenkate, C. M.; Tuinzing, D. B.; Burger, E. H.: Mineralization Processes in Demineralized Bone Matrix Grafts in Human Maxillary Sinus Floor Elevations, 393
Guay, L. See Eberhart, A., 546
Guidoin, R. See Eberhart, A., 546
—; See Yang, M., 13, 648
Guilhem, A. See Gineste, L., 224
Gurruchaga, M. See Pascual, B., 447
Guzzardella, M. See Orienti, L., 216

Habal, M. B. See Marotta, J. S., 354
Hahn, C. See Yang, M., 13, 648
Halberstadt, C. R. See Loebsack, A. B., 504
Hall, D. J. See Jacobs, J. J., 385
Hall, R. M. See Elfick, A. P. D., 712
Hamada, Y.
—; Horiuchi, T.; Sano, Y.; Usui, I.: The Wear of a Polyethylene Socket Articulating with a Zirconia Ceramic Femoral Head in Canine Total Hip Arthroplasty, 301
Haman, J. D.
—; Chittur, K. K.; Crawmer, D. E.; Lucas, L. C.: Analytical and Mechanical Testing of High Velocity Oxy-Fuel Thermal Sprayed and Plasma Sprayed Calcium Phosphate Coatings, 856
Hannoyer, B. See Balmain, J., 749
Hanssen, H. H. L.
—; Wetzels, G. M. R.; Benzina, A.; van der Veen, F. H.; Lindhout, T.; Koole, L. H.: Metallic Wires with an Adherent Lubricious and Blood-Compatible Polymeric Coating and Their Use in the Manufacture of Novel Slippery-When-Wet Guidewires: Possible Applications Related to Controlled Local Drug Delivery, 820
Hastings, G. W. See Wan, A. C. A., 700
Hatada, R. See Yoshida, K., 778
Hatano, K. See Matsunaga, T., 417
Haynes, J. A.
—; Rigney, E. D.; Janowski, G. M.: Effects of Cyclic Bending and Physiological Solution on Plasma-Sprayed Hydroxylapatite Coatings of Varying Crystallinity, 403
Heino, A.
—; Naukkarinen, A.; Pietiläinen, T.; Merasto, M. E.; Törmälä, P.; Pohjonen, T.; Antero Mäkelä, E.: Application of a Self-Reinforced Polyglycolic Acid (SR-PGA) Membrane to the Closure of an Abdominal Fascial Defect in Rats, 596

Helevirta, P. See Pirhonen, E., 875
Heller, J. See Andriano, K. P., 528, 602
Helminen, H. J. See Arokoski, J. P. A., 99
–; See Lyyra, T., 482
Herbert, K. M. See Attawia, M. A., 322
Hildebrand, L. B.
—; Schmidt, J. A.; Prentice, J. K.; Stotts, L. J.: Quantitative, Low Cycle, Crack Initiation Fatigue Testing of Fine Wires and CENELEC Standard Pacing Coil, 251
Hirsch, J.-M. See Esposito, M., 559
Hoang-Xuan, T. See Korobelnik, J. F., 807
Hoffman, C. E. See Scardino, M. S., 315
Hoffman, M. See Jia, W., 488
Holder, W. D., Jr. See Loebsack, A. B., 504
Holloway, J. A. See Denry, I. L., 791
Holzmann, P. See Groeneveld, E. H. J., 393
Hong, S. R. See Choi, Y. S., 631
Horiuchi, T. See Hamada, Y., 301
Huang, C.-H. See Young, T.-H., 159
Huie, P. See Chun, L., 899
Hungerford, D. S. See Jones, L. C., 889
Hyttinen, M. M. See Arokoski, J. P. A., 99

Ido, K. See Mousa, W. F., 726
Iida, H. See Fujita, H., 43
Ikada, Y. See Andriano, K. P., 602
—; See Tomita, N., 474
Inoue, H. See Matsunaga, T., 417
Inoue, M. See Ono, I., 621
Ishihara, K. See Miyamoto, Y., 36
—; See Morita, S., 759

Jackson, E. M.
—; Neal, J. G.; Williams, F. M.; Stern, C. A.; Suber, F.; Thacker, J. G.; Edlich, R. F.: Biomechanical Performance of Orthopedic Gloves, 193
—; Williams, F. M.; Neal, J. G.; Suber, F.; Thacker, J. G.; Edlich, R. F.: Biomechanical Performance of Examination Gloves, 572
—; See Edlich, R. F., 755
—; See Neal, J. G., 24
Jacobs, J. J.
—; Patterson, L. M.; Skipor, A. K.; Hall, D. J.; Urban, R. M.; Black, J.; Galante, J. O.: Postmortem Retrieval of Total Joint Replacement Components, 385
—; See Skipor, A. K., 90
Jagger, R. See Waters, M., 765
James, S. P.
—; Lee, K. R.; Beauregard, G. P.; Rentfrow, E. D.; McLaughlin, J. R.: Clinical Wear of 63 Ultrahigh Molecular Weight Polyethylene Acetabular Components: Effect of Starting Resin and Forming Method, 374
Janowski, G. M. See Haynes, J. A., 403
Jay, M. See Kim, S. H., 669
Jewett, C. W. See Kurtz, S. M., 75
Jia, W.
—; Beatty, M. W.; Reinhardt, R. A.; Petro, T. M.; Cohen, D. M.; Maze, C. R.; Strom, E. A.; Hoffman, M.: Nickel Release from Orthodontic Arch Wires and Cellular Immune Response to Various Nickel Concentrations, 488
Jiang, G.
—; Shi, D.: Coating of Hydroxyapatite on Porous Alumina Substrate Through a Thermal Decomposition Method, 117
Jiang, S.-F. See Chen, J.-H., 235
Jones, L. C.
—; Frondoza, C.; Hungerford, D. S.: Immunohistochemical Evaluation of Interface Membranes from Failed Cemented and Uncemented Acetabular Components, 889
Joseph, R.
—; Ramesh, P.; Sivakumar, R.: Tensile Set Behavior of Foley Catheter Balloons, 27
Jozefonvicz, J. See Logeart-Avramoglou, D., 578
Ju, Y. M. See Lee, J. H., 328
Jurvelin, J. S. See Arokoski, J. P. A., 99
—; See Lyyra, T., 482

Kahler, D. M. See Tadje, J. P., 479
Kaikkonen, A. See Pirhonen, E., 875
Kakimaru, Y. See Suzuki, Y., 522
Kam, H.-M.
—; Khor, E.; Lim, L.-Y.: Storage of Partially Deacetylated Chitosan Films, 881
Kamada, K. See Yoshida, K., 778
Kato, H. See Nishiguchi, S., 689
Kawachi, S. See Morita, S., 759
Kawanabe, K. See Fujita, H., 43
Kempson, S. A. See Amis, A. A., 534
Khor, E. See Kam, H.-M., 881
—; See Lim, L.-Y., 111
Kidane, A.
—; Park, K.: Complement Activation by PEO-Grafted Glass Surfaces, 640
Kikuchi, M.
—; Tanaka, J.; Koyama, Y.; Takakuda, K.: Cell Culture Test of TCP/CPLA Composite, 108
Kikutani, T. See Kobayashi, M., 265
Kim, H.-M. See Nishiguchi, S., 689
Kim, H. Y.
—; Marrero, T. R.; Yasuda, H. K.; Pringle, O. A.: A Simple Multi-Specimen Apparatus for Fixed Stress Fatigue Testing, 297
—; Yasuda, H. K.: Improvement of Fatigue Properties of Poly(methyl methacrylate) Bone Cement by Means of Plasma Surface Treatment of Fillers, 135
Kim, K. O. See Lee, J. H., 328
Kim, S. H.
—; Tartaglino, S. G.; Burpee, S.; Pendergrass, J. C.; Jay, M.: Photobinding of [γ-^{32}P] ATP γ-Benzophenone to the Surface of a Polyurethane Membrane in the Preparation of a β-Particle-Emitting Balloon Catheter, 669
Kim, S.-Y. See Yang, I.-H., 220
King, M. W. See Eberhart, A., 546
—; See Yang, M., 13, 648
Kinzl, L. See Claes, L., 82
Kirk, P. B.
—; Filiaggi, M. J.; Sodhi, R. N. S.; Pilliar, R. M.: Evaluating Sol-Gel Ceramic Thin Films for Metal Implant Applications: III. *In Vitro* Aging of Sol-Gel-Derived Zirconia Films on Ti-6Al-4V, 424
Kitakura, T. See Tomita, N., 474
Kitamura, Y. See Fujita, H., 43
Kiviranta, I. See Lyyra, T., 482
Klein, C. P. A. T. See Clemens, J. A. M., 741
Kobayashi, M.
—; Nakamura, T.; Tamura, J.; Kikutani, T.; Nishiguchi, S.; Mousa, W. F.; Takahashi, M.; Kokubo, T.: Osteoconductivity and Bone-Bonding Strength of High- and Low-Viscous Bioactive Bone Cements, 265
—; See Mousa, W. F., 726
Kohn, D. M. See Rupp, S., 70
Kojo, T. See Matsunaga, T., 417
Kokubo, T. See Kobayashi, M., 265
—; See Nishiguchi, S., 689
Komender, J. See Lewandowska-Szumieł, M., 289
Koole, L. H. See Hanssen, H. H. L., 820
Korobelnik, J. F.
—; D'Hermies, F.; Ducourneau, D.; Legeais, J. M.; Chauvaud, D.; Hoang-Xuan, T.; Renard, G.: e-PTFE as Scleral Buckling Episcleral Implants: An Experimental and Histopathologic Study, 807
Kossovsky, N.
—; Brandegee, B.: Editorial: Why Compliance Is Not Good Enough, 1
Koyama, Y. See Kikuchi, M., 108
Kudo, H. See Suzuki, Y., 522
Kurtz, S. M.
—; Jewett, C. W.; Foulds, J. R.; Edidin, A. A.: A Miniature Specimen Mechanical Testing Technique Scaled to Articulating Surface of Polyethylene Components for Total Joint Arthroplasty, 75

La, D. See Story, B. J., 841
Laiw, R.-F. See Chen, J.-H., 235
Lamponi, S. See Barbucci, R., 9
Landry, M. E.
—; Blanchard, C. R.; Mabrey, J. D.; Wang, X.; Agrawal, C. M.: Morphology of *In Vitro* Generated Ultrahigh Molecular Weight Polyethylene Wear Particles as a Function of Contact Conditions and Material Parameters, 61
Langer, R. See Attawia, M. A., 322

Laroche, G. See Eberhart, A., 546
—; See Vermette, P., 660
—; See Yang, M., 13
Latour, R. A., Jr. See Rinehart, J. D., 833
Laurencin, C. T. See Attawia, M. A., 322
Lausmaa, J. See Esposito, M., 559
Lautié, A. See Stanislawski, L., 277
Lee, J. H.
—; Kim, K. O.; Ju, Y. M.: Polyethylene Oxide Additive-Entrapped Polyvinyl Chloride as a New Blood Bag Material, 328
Lee, K. R. See James, S. P., 374
Lee, Y.-D. See Chen, J.-H., 235
Lee, Y. M. See Choi, Y. S., 631
—; See Young, T.-H., 159
Legeais, J. M. See Korobelnik, J. F., 807
Legeais, J.-M. See Werner, L., 814
Leloup, G. See Pianelli, C., 675
Leung, T. K. See Trépanier, C., 165
Lévesque, S. See Vermette, P., 660
Lewandowska-Szumieł, M.
—; Komender, J.; Chłopek, J.: Interaction Between Carbon Composites and Bone after Intrabone Implantation, 289
Lewis, G.
—; Effect of Mixing Method and Storage Temperature of Cement Constituents on the Fatigue and Porosity of Acrylic Bone Cement, 143
Leyhausen, G. See Geurtsen, W., 772
Li, H.-M. See Yang, J.-M., 52
Li, S.
—; Hydrolytic Degradation Characteristics of Aliphatic Polyesters Derived from Lactic and Glycolic Acids, 342
Liao, P. See Lu, Z., 458
Liao, Y.-S.
—; Benya, P. D.; McKellop, H. A.: Effect of Protein Lubrication on the Wear Properties of Materials for Prosthetic Joints, 465
Lim, L.-Y.
—; Khor, E.; Ling, C.-E.: Effects of Dry Heat and Saturated Steam on the Physical Properties of Chitosan, 111
—; See Kam, H.-M., 881
Lin, K. Y. See Fisher, M. D., 797
Lin, S.-S. See Liu, S.-J., 613
Lin, T.-C. See Chang, C.-S., 411
Lind, M.
—; Trindade, M. C. D.; Nakashima, Y.; Schurman, D. J.; Goodman, S. B.; Smith, R. L.: Chemotaxis and Activation of Particle-Challenged Human Monocytes in Response to Monocyte Migration Inhibitory Factor and C—C Chemokines, 246
Lindhout, T. See Hanssen, H. H. L., 820
Ling, C.-E. See Lim, L.-Y., 111
Liu, S.-J.
—; Wen-Neng Ueng, S.; Chan, E.-C.; Lin, S.-S.; Tsai, C.-H.; Wei, F.-C.; Shih, C.-H.: *In Vitro* Elution of Vancomycin from Biodegradable Beads, 613
Lockwood, P. E. See Wataha, J. C., 786
Loebsack, A. B.
—; Halberstadt, C. R.; Holder, W. D., Jr.; Culberson, C. R.; Beiler, R. J.; Greene, K. G.; Roland, W. D.; Burg, K. J. L.: The Development of an Embedding Technique for Polylactide Sponges, 504
Logeart-Avramoglou, D.
—; Jozefonvicz, J.: Carboxymethyl Benzylamide Sulfonate Dextrans (CMDBS), A Family of Biospecific Polymers Endowed with Numerous Biological Properties: A Review, 578
Lopes, M. A.
—; Monteiro, F. J.; Santos, J. D.: Glass-Reinforced Hydroxyapatite Composites: Secondary Phase Proportions and Densification Effects on Biaxial Bending Strength, 734
Lopez, E. See Balmain, J., 749
Love, B. J. See Vaubert, V. M., 5
Lu, Z.
—; McKellop, H.; Liao, P.; Benya, P.: Potential Thermal Artifacts in Hip Joint Wear Simulators, 458
Lucas, L. C. See Haman, J. D., 856
Lyman, D. J.
—; Murray-Wijelath, J.: Vascular Graft Healing: I. FTIR Analysis of an Implant Model for Studying the Healing of a Vascular Graft, 172
Lyyra, T.
—; Kiviranta, I.; Väätäinen, U.; Helminen, H. J.; Jurvelin, J. S.: *In Vivo* Characterization of Indentation Stiffness of Articular Cartilage in the Normal Human Knee, 482

Maas, C. See Catanese, J., III, 187
Mabrey, J. D. See Landry, M. E., 61
Mac, M. See Boswell, C. A., 591
Magnissalis, E. A.
—; Eliades, G.; Eliades, T.: Multitechnique Characterization of Articular Surfaces of Retrieved Ultrahigh Molecular Weight Polyethylene Acetabular Sockets, 365
Marotta, J. S.
—; Widenhouse, C. W.; Habal, M. B.; Goldberg, E. P.: Silicone Gel Breast Implant Failure and Frequency of Additional Surgeries: Analysis of 35 Studies Reporting Examination of More Than 8000 Explants, 354
Marrero, T. R. See Kim, H. Y., 297
Masuda, T. See Fujita, H., 43
Mathien, G. See Cady, R. B., 211
Matsuda, T. See Nakayama, Y., 511
Matsumura, H. See Taira, Y., 697
Matsunaga, T.
—; Inoue, H.; Kojo, T.; Hatano, K.; Tsujisawa, T.; Uchiyama, C.; Uchida, Y.: Disaggregated Osteoclasts Increase in Resorption Activity in Response to Roughness of Bone Surface, 417
Matsushita, M. See Mousa, W. F., 726
Maze, C. R. See Jia, W., 488
McKellop, H. See Lu, Z., 458
—; See Shen, F.-W., 203
McKellop, H. A. See Liao, Y.-S., 465
McLaughlin, J. R. See James, S. P., 374
Merasto, M. E. See Heino, A., 596
Miller, R. G. See Bowles, C. Q., 496
Misra, D. N.
—; Adsorption from Solutions on Synthetic Hydroxyapatite: Nonaqueous vs. Aqueous Solvents, 848
Miyaji, F. See Nishiguchi, S., 689
Miyamoto, Y.
—; Ishikawa, K.; Takechi, M.; Toh, T.; Yuasa, T.; Nagayama, M.; Suzuki, K.: Histological and Compositional Evaluations of Three Types of Calcium Phosphate Cements When Implanted in Subcutaneous Tissue Immediately After Mixing, 36
Monteiro, F. J. See Lopes, M. A., 734
Montemartini, P. E. See Vallo, C. I., 150
Moon, P. C. See Vaubert, V. M., 5
Morita, S.
—; Kawachi, S.; Yamamoto, H.; Shinomiya, K.; Nakabayashi, N.; Ishihara, K.: Total Hip Arthroplasty Using Bone Cement Containing Tri-*n*-butylborane as the Initiator, 759
Moroni, A. See Orienti, L., 216
Morse, B. S. See Scardino, M. S., 315
Mousa, W. F.
—; Fujita, H.; Ido, K.; Neo, M.; Kobayashi, M.; Zeineldin, I. A.; Matsushita, M.; Nakamura, T.: Bone-Bonding Ability of Bioactive Bone Cement Under Mechanical Stress, 726
—; See Kobayashi, M., 265
Müller, K. See Geurtsen, W., 772
Murray-Wijelath, J. See Lyman, D. J., 172

Nagayama, M. See Miyamoto, Y., 36
Nagel, M.-D. See Werner, L., 814
Nakabayashi, N. See Morita, S., 759
Nakamura, T. See Fujita, H., 43
—; See Kobayashi, M., 265
—; See Mousa, W. F., 726
—; See Nishiguchi, S., 689
Nakashima, Y. See Lind, M., 246
Nakayama, Y.
—; Matsuda, T.: Photocurable Surgical Tissue Adhesive Glues Composed of Photoreactive Gelatin and Poly(ethylene glycol) Diacrylate, 511
Nam, Y. S. See Choi, Y. S., 631

Naukkarinen, A. See Heino, A., 596
Neal, J. G.
—; Jackson, E. M.; Cox, M. J.; Thacker, J. G.; Edlich, R. F.: Failure of Glove Hole Detection Device for Synthetic Gloves, 24
—; See Edlich, R. F., 755
—; See Fisher, M. D., 199
—; See Jackson, E. M., 193, 572
Neo, M. See Mousa, W. F., 726
Nishiguchi, S.
—; Kato, H.; Fujita, H.; Kim, H.-M.; Miyaji, F.; Kokubo, T.; Nakamura, T.: Enhancement of Bone-Bonding Strengths of Titanium Alloy Implants by Alkali and Heat Treatments, 689
—; See Kobayashi, M., 265
Nishimura, Y. See Suzuki, Y., 522
Noecker, R. J. See Boswell, C. A., 591

Ohgushi, H.
—; Caplan, A. I.: Stem Cell Technology and Bioceramics: From Cell to Gene Engineering, 913
Oka, M. See Fujita, H., 43
Okada, Y. See Fujita, H., 43
O'Keefe, J. S. See Fisher, M. D., 199
Onmori, N. See Tomita, N., 474
Ono, I.
—; Tateshita, T.; Inoue, M.: Effects of a Collagen Matrix Containing Basic Fibroblast Growth Factor on Wound Contraction, 621
Orienti, L.
—; Fini, M.; Rocca, M.; Giavaresi, G.; Guzzardella, M.; Moroni, A.; Giardino, R.: Measurement of Insertion Torque of Tapered External Fixation Pins: A Comparison Between Two Experimental Models, 216

Park, K. See Kidane, A., 640
Park, M. H. See Choi, Y. S., 631
Pascual, B.
—; Goñi, I.; Gurruchaga, M.: Characterization of New Acrylic Bone Cement Based on Methyl Methacrylate/1-Hydroxypropyl Methacrylate Monomer, 447
Patterson, L. M. See Jacobs, J. J., 385
Pendergrass, J. C. See Kim, S. H., 669
Petro, T. M. See Jia, W., 488
Pianelli, C.
—; Devaux, J.; Bebelman, S.; Leloup, G.: The Micro-Raman Spectroscopy, a Useful Tool to Determine the Degree of Conversion of Light-Activated Composite Resins, 675
Pietiläinen, T. See Heino, A., 596
Pilliar, R. M. See Kirk, P. B., 424
Pinder, I. M. See Elfick, A. P. D., 712
Pinzino, C. S. See Bowles, C. Q., 496
Pirhonen, E.
—; Kaikkonen, A.; Helevirta, P.; Pohjonen, T.; Tamminmäki, M.; Törmälä, P.: Development of a Bioabsorbable Suture Anchor, 875
Piron, D. L. See Trépanier, C., 165
Planell, J. A. See Gil, F. J., 682
—; See Vila, M. M., 121, 128
Pohjonen, T. See Heino, A., 596
—; See Pirhonen, E., 875
Porto López, J. M. See Vallo, C. I., 150
Prentice, J. K. See Hildebrand, L. B., 251
Pringle, O. A. See Kim, H. Y., 297
Pruitt, L. See Catanese, J., III, 187

Que, L.
—; Topoleski, L. D. T.: Surface Roughness Quantification of CoCrMo Implant Alloys, 705

Ramesh, P. See Joseph, R., 27
Ranz, X. See Gineste, L., 224
Reddy, V. R.
—; Thomas, T. S.; Wright, H. R.; Fisher, M. D.; Edlich, R. F.: The Scientific Basis of Surgical Glove Selection in an *In Vitro* Fertilization Laboratory, 569
—; See Fisher, M. D., 797
Regula, D. See Chun, L., 899
Reinhardt, R. A. See Jia, W., 488
Renard, G. See Korobelnik, J. F., 807
—; See Werner, L., 814
Rentfrow, E. D. See James, S. P., 374
Rigney, E. D. See Haynes, J. A., 403
Rinehart, J. D.
—; Taylor, T. D.; Tian, Y.; Latour, R. A., Jr.: Real-Time Dissolution Measurement of Sized and Unsized Calcium Phosphate Glass Fibers, 833
Rocca, M. See Orienti, L., 216
Rodeheaver, G. T. See Tadje, J. P., 479
Roland, W. D. See Loebsack, A. B., 504
Rouquet, N. See Gineste, L., 224
Rubash, H. E. See Yang, I.-H., 220
Rupp, S.
—; Seil, R.; Schneider, A.; Kohn, D. M.: Ligament Graft Initial Fixation Strength Using Biodegradable Interference Screws, 70

Sano, Y. See Hamada, Y., 301
San Roman, J. See Deb, S., 719
Santos, J. D. See Lopes, M. A., 734
Sartin, E. A. See Scardino, M. S., 315
Sato, K. See Yoshida, K., 778
Scardino, M. S.
—; Swaim, S. F.; Morse, B. S.; Sartin, E. A.; Wright, J. C.; Hoffman, C. E.: Evaluation of Fibrin Sealants in Cutaneous Wound Closure, 315
Scher, D. M. See Chen, F. S., 904
Schmidt, J. A. See Hildebrand, L. B., 251
Schneider, A. See Rupp, S., 70
Schroeder, J. A.
—; Brown, M. K. C.: Biocompatibility and Degradation of Collagen Bone Anchors in a Rabbit Model, 309
Schultheiss, M. See Claes, L., 82
Schurman, D. J. See Lind, M., 246
Scott, W. See Chen, C. Q. L., 440
Seil, R. See Rupp, S., 70
Shanbhag, A. S. See Yang, I.-H., 220
Shen, F.-W.
—; Yu, Y.-J.; McKellop, H.: Potential Errors in FTIR Measurement of Oxidation in Ultrahigh Molecular Weight Polyethylene Implants, 203
Shi, D. See Jiang, G., 117
Shih, C.-H. See Liu, S.-J., 613
—; See Yang, J.-M., 52
Shimizu, Y. See Suzuki, Y., 522
Shin, M. A.
—; Drummond, J. L.: Evaluation of Chemical and Mechanical Properties of Dental Composites, 540
Shinomiya, K. See Morita, S., 759
Siegel, J. A. See Cady, R. B., 211
Sivakumar, R. See Joseph, R., 27
Skipor, A. K.
—; Jacobs, J. J.; Yu, L.; Black, J.: Comparison of Zeeman Background Corrected Atomic Absorption Spectrometric and Inductively Coupled Plasma Mass Spectrometric Detection of Trace Elements in Electrothermally Vaporized Serum, 90
—; See Jacobs, J. J., 385
Smith, R. L. See Lind, M., 246
—; See Trindade, M. C. D., 434
Snyder, R. W. See Boswell, C. A., 591
Söderling, E. See Stoor, P., 869
Sodhi, R. N. S. See Kirk, P. B., 424
Song, K. W. See Choi, Y. S., 631
Song, Y. See Chun, L., 899
—; See Trindade, M. C. D., 434
Spadaro, J. A. See Cady, R. B., 211
Spahl, W. See Geurtsen, W., 772
Stanislawski, L.
—; Daniau, X.; Lautié, A.; Goldberg, M.: Factors Responsible for Pulp Cell Cytotoxicity Induced by Resin-Modified Glass Ionomer Cements, 277
Stern, C. A. See Jackson, E. M., 193
Stoor, P.
—; Söderling, E.; Grenman, R.: Interactions Between the Bioactive Glass S53P4 and the Atrophic Rhinitis-Associated Microorganism *Klebsiella ozaenae*, 869
Story, B. J.
—; Burgess, A. V.; La, D.; Wagner, W. R.: *In Vitro* Stability of a Highly Crystalline Hydroxylapatite Coating in a Saturated Citric Acid Solution, 841
Stotts, L. J. See Hildebrand, L. B., 251
Strom, E. A. See Jia, W., 488

Su, C.-Y. See Chang, C.-S., 411
Suber, F. See Edlich, R. F., 755
—; See Jackson, E. M., 193, 572
Suber, F. See Jackson, E. M., 193
Suzuki, K. See Miyamoto, Y., 36
—; See Suzuki, Y., 522
Suzuki, Y.
—; Tanihara, M.; Nishimura, Y.; Suzuki, K.; Yamawaki, Y.; Kudo, H.; Kakimaru, Y.; Shimizu, Y.: *In Vivo* Evaluation of a Novel Alginate Dressing, 522
Swaim, S. F. See Scardino, M. S., 315
Syverud, S. A. See Fisher, M. D., 199
Szivek, J. A. See Battraw, G. A., 32

Tabata, Y. See Andriano, K. P., 602
Tabrizian, M. See Trépanier, C., 165
Tadje, J. P.
—; Kahler, D. M.; Green, C. W.; Rodeheaver, G. T.; Edlich, R. F.: Enhancing Knot Security by Heat Treatment of Knot Ears, 479
Taira, Y.
—; Baba, N.; Yoshida, K.; Matsumura, H.; Atsuta, M.: A Study on Cytochrome c Oxidoreductase for Bonding a Tri-*n*-butylborane-Initiated Luting Agent to Dentin, 697
Takahashi, M. See Kobayashi, M., 265
Takakuda, K. See Kikuchi, M., 108
Takechi, M. See Miyamoto, Y., 36
Tamminmäki, M. See Pirhonen, E., 875
Tamura, J. See Kobayashi, M., 265
Tanaka, J. See Kikuchi, M., 108
Tanguay, J.-F. See Trépanier, C., 165
Tanihara, M. See Suzuki, Y., 522
Tarr, L. A. See Denry, I. L., 791
Tartaglino, S. G. See Kim, S. H., 669
Tateshita, T. See Ono, I., 621
Taylor, T. D. See Rinehart, J. D., 833
ten Bruggenkate, C. M. See Groeneveld, E. H. J., 393
Thacker, J. G. See Fisher, M. D., 797
—; See Jackson, E. M., 193, 572
—; See Neal, J. G., 24
Thibault, J. See Vermette, P., 660
Thomas, T. S. See Reddy, V. R., 569
Thomsen, P. See Esposito, M., 559
Tian, Y. See Rinehart, J. D., 833
Toh, T. See Miyamoto, Y., 36
Tomita, N.
—; Kitakura, T.; Onmori, N.; Ikada, Y.; Aoyama, E.: Prevention of Fatigue Cracks in Ultrahigh Molecular Weight Polyethylene Joint Components by the Addition of Vitamin E, 474
Topoleski, L. D. T. See Que, L., 705
Törmälä, P. See Heino, A., 596
—; See Pirhonen, E., 875
Toth, J. M. See Brekke, J. H., 95
Trépanier, C.
—; Leung, T. K.; Tabrizian, M.; Yahia, L'H.; Bienvenu, J.-G.; Tanguay, J.-F.; Piron, D. L.; Bilodeau, L.: Preliminary Investigation of the Effects of Surface Treatments on Biological Response to Shape Memory NiTi Stents, 165
Trindade, M. C. D.
—; Song, Y.; Aspenberg, P.; Smith, R. L.; Goodman, S. B.: Proinflammatory Mediator Release in Response to Particle Challenge: Studies Using the Bone Harvest Chamber, 434
—; See Lind, M., 246
Tsai, C.-H. See Liu, S.-J., 613
Tsujisawa, T. See Matsunaga, T., 417
Tuinzing, D. B. See Groeneveld, E. H. J., 393

Uchida, Y. See Matsunaga, T., 417
Uchiyama, C. See Matsunaga, T., 417
Uhrich, K. E. See Attawia, M. A., 322
Unsworth, A. See Elfick, A. P. D., 712
Urban, R. M. See Jacobs, J. J., 385
Usui, I. See Hamada, Y., 301

Väätäinen, U. See Lyyra, T., 482
Vallo, C. I.
—; Montemartini, P. E.; Fanovich, M. A.; Porto López, J. M.; Cuadrado, T. R.: Polymethylmethacrylate-Based Bone Cement Modified with Hydroxyapatite, 150
van den Bergh, J. P. A. See Groeneveld, E. H. J., 393
van der Veen, F. H. See Hanssen, H. H. L., 820
Vaubert, V. M.
—; Moon, P. C.; Love, B. J.: Extractable Free Monomers from Self-Cured Dental Sealants Resulting from Dispensing Errors, 5
Vazquez, B. See Deb, S., 719
Venugopalan, R.
—; Corrosion Testing of Stents: A Novel Fixture to Hold Entire Device in Deployed Form and Finish, 829
Vera-Yu, A. See Chen, F. S., 904
Vermette, P.
—; Thibault, J.; Lévesque, S.; Laroche, G.: Lipid Uptake Across the Wall of an Expanded Polytetrafluoroethylene Vascular Graft, 660
Vila, M. M.
—; Ginebra, M. P.; Gil, F. J.; Planell, J. A.: Effect of Porosity and Environment on the Mechanical Behavior of Acrylic Bone Cement Modified with Acrylonitrile-Butadiene-Styrene Particles: I. Fracture Toughness, 121
—; Ginebra, M. P.; Gil, F. J.; Planell, J. A.: Effect of Porosity and Environment on the Mechanical Behavior of Acrylic Bone Cement Modified with Acrylonitrile-Butadiene-Styrene Particles: Part II. Fatigue Crack Propagation, 128
Vuillème, M. N. See Wataha, J. C., 786

Wagner, W. R. See Story, B. J., 841
Wan, A. C. A.
—; Yap, A. U. J.; Hastings, G. W.: Acid-Base Complex Reactions in Resin-Modified and Conventional Glass Ionomer Cements, 700
Wang, X. See Landry, M. E., 61
Wataha, J. C.
—; Lockwood, P. E.; Vuillème, M. N.; Zürcher, M.-H.: Cytotoxicity of Au-Based Dental Solders Alone and on a Substrate Alloy, 786
Waters, M.
—; Jagger, R.: Improved Wettability of an Experimental Silicone Rubber Denture Soft Lining Material, 765
Wei, F.-C. See Liu, S.-J., 613
Wenger, K. H. See Andriano, K. P., 528
Wen-Neng Ueng, S. See Liu, S.-J., 613
Werner, L.
—; Legeais, J.-M.; Nagel, M.-D.; Renard, G.: Neutral Red Assay of the Cytotoxicity of Fluorocarbon-Coated Polymethylmethacrylate Intraocular Lenses In Vitro, 814
Wetzels, G. M. R. See Hanssen, H. H. L., 820
Widenhouse, C. W. See Marotta, J. S., 354
Wilke, H.-J. See Claes, L., 82
Williams, F. M. See Edlich, R. F., 755
—; See Fisher, M. D., 199, 797
—; See Jackson, E. M., 193, 572
Williams, S. K. See Boswell, C. A., 591
Wolf, S. See Claes, L., 82
Wolke, J. G. C. See Clemens, J. A. M., 741
Wright, H. R. See Reddy, V. R., 569
Wright, J. C. See Scardino, M. S., 315

Yahia, L'H. See Trépanier, C., 165
Yamamoto, H. See Morita, S., 759
Yamawaki, Y. See Suzuki, Y., 522
Yang, I.-H.
—; Kim, S.-Y.; Rubash, H. E.; Shanbhag, A. S.: Fabrication of Submicron Titanium-Alloy Particles for Biological Response Studies, 220
Yang, J.-M.
—; Li, H.-M.; Yang, M.-C.; Shih, C.-H.: Characterization of Acrylic Bone Cement Using Dynamic Mechanical Analysis, 52
Yang, M.
—; Zhang, Z.; Hahn, C.; King, M. W.; Guidoin, R.: Assessing the Resistance to Calcification of Polyurethane Membranes Used in the Manufacture of Ventricles for a Totally Implantable Artificial Heart, 648

—; Zhang, Z.; Hahn, C.; Laroche, G.; King, M. W.; Guidoin, R.: Totally Implantable Artificial Hearts and Left Ventricular Assist Devices: Selecting Impermeable Polycarbonate Urethane to Manufacture Ventricles, 13
Yang, M.-C. See Yang, J.-M., 52
Yap, A. U. J. See Wan, A. C. A., 700
Yasuda, H. K. See Kim, H. Y., 135, 297
Yoon, J. See Chun, L., 899
Yoshida, K.
—; Kamada, K.; Sato, K.; Hatada, R.; Baba, K.; Atsuta, M.: Thin Sol-Gel-Derived Silica Coatings on Dental Pure Titanium Casting, 778
—; See Taira, Y., 697
Young, T.-H.
—; Cheng, C.-K.; Lee, Y.-M.; Chen, L.-Y.; Huang, C.-H.: Analysis of Ultrahigh Molecular Weight Polyethylene Failure in Artificial Knee Joints: Thermal Effect on Long-Term Performance, 159
Yu, L. See Skipor, A. K., 90
Yu, Y.-J. See Shen, F.-W., 203
Yuasa, T. See Miyamoto, Y., 36

Zeineldin, I. A. See Mousa, W. F., 726
Zhang, Z. See Eberhart, A., 546
—; See Yang, M., 13, 648
Zürcher, M.-H. See Wataha, J. C., 786

Journal of Biomedical Materials Research (Applied Biomaterials) Subject Index to Volume 48

Absorbable, histological processing and analysis, 504
Absorbable pin, 211
Absorbable polymer, 602
Absorbance area ratios, 700
Acid-base complexation reaction, 700
ACL graft, 534
Acrylic bone cement, 52, 121, 128, 143, 447
Acrylic bone cements, 719
Activation, 246
Activation energy, 540
Adhesion, 697, 869
Adhesive glue, 511
Adsorption, 848
Aging, 27, 424, 540
Alginate, 522
Alkali treatment, 689
Alkaline phosphatase, 417
Alumina ceramic, 301
Aluminum, 90
Amphiphilic block copolymers, 328
Animal model, 434, 726
Antibiotic beads, 613
Apatite wollastonite-glass ceramic, 265
Apparatus, 297
Aqueous drainage devices, 591
Arthroplasty, 904
Arthroscopic surgery, 479
Arthroscopy, 482
Articular cartilage, 99, 482
Artificial heart, 13, 648
Artificial joint, 474
Aseptic loosening, 889, 904
Atomic absorption, 488
Atrophic rhinitis, 869
Attenuated total reflectance, 172
Autocatalysis, 342
Autopsy, 385
A-W glass ceramics, 726
AW glass-ceramic, 43

Bacterial inhibition, 613
Bacteriophage, 755
Beta-emitter, 669
β-Tricalcium phosphate (TCP), 108
Bioabsorbability, 522
Bioabsorbable, 875
Bioabsorbable glass, 833
Bioabsorbable polymers, 528
Bioactive bone cement, 43, 265, 726
Bioactive glass, 869
Biocompatibility, 36, 211, 488, 591, 719, 786
Biocompatibility and hard tissue, 309
Biocompatible materials, 528, 807
Biodegradable polymers, 613
Biofilm calcification, 365
Biological response, 165
Biomaterials, 9, 403
Biomechanical properties, 99
Biomechanics, 70
Biomimetic biomaterials, 578
Blood, 9
Blood bag, 328
Bonding mechanism, 440
Bone, 322
Bone anchor, 309, 875
Bone bonding, 32
Bone cement, 135, 297, 440, 759
Bone cements, 150
Bone growth, 211
Bone harvest chamber (BHC), 434
Bone marrow, 913
Bone regeneration, 393, 602
Bone resorption, 417
Bone substitute, 36
Bone-bonding, 689
Bone-bonding strength, 265
Bovine fibrin sealant, 315

C—C chemokines, 246
Calcification, 648
Calcium phosphate, 403, 833
Calcium phosphate cement, 36
Calcium phosphate ceramic, 32
Calcium phosphate coatings, 856
Carbon composite, 289
Carbon fiber reinforced carbon, 289
Cardiac, 669
Catheter removal, 27
Cell culture, 277, 814
Cell culture tests, 108
Cell-culture, 786
Cellular differentiation, 899
CENELEC, 251
Ceramic-fused-to-metal technique, 258
Ceramics, 913
Characterization, 220
Chemotaxis, 246
Chitosan, 111, 881
Chitosan acetate, 881
Clinical treatment, 869
Coagulation, 235
Coating, 117, 424
Coating failure, 741
Coatings, 224
CoCrMo alloy, 705
Coil, 251
Collagen, 99, 309
Collagen gel contraction, 621
Collagen matrix, 621
Complement activation, 640
Composite, 833
Compression molding, 374
Contact angle, 778
Contact stress, 61
Copoly-L-lactide (CPLA), 108
Corrosion, 786
Corrosion cast, 411
Corrosion testing, 829
Crack healing, 791
Cross-linking, 631
Crystallinity, 741, 841, 861
Cure initiator, 759
Cytochrome c, 697
Cytokines, 434, 889
Cytotoxicity, 277, 569, 719, 772

Degradation, 75, 224, 309, 342
Degree of conversion, 675
Delamination, 474
Demineralized bone matrix, 393
Dental adhesives, 496
Dental alloys, 258
Dental implant, 841
Dental implants, 224, 403, 559
Dentin, 697
Dentin adhesives, 772
Denture liners, 765
Denucleation, 591
Depth of cure, 675
Dermal substitute, 621
Detonation gun spraying, 861
Dispensing errors, 5
Dissolution, 741, 833
Dog, 99

Double-gloving, 797
Drug release rate, 613
Dry heat, 111
Duckworth–Knudsen model, 734
Dynamic contact angle analysis, 765
Dynamic mechanical properties, 52
Dynamic mechanical thermal analysis, 447

Ear, 479
Ease of donning, 193, 572
Elasticity, 759
Electronic hole detection, 24
Electrothermal vaporization inductively coupled plasma mass spectrometry, 90
Element release, 786
Environmental conditions, 121, 128
ePTFE, 591
e-PTFE (expanded polytetrafluoroethylene), 807
Ethylene glycol, 772
Ethylene glycol dimethacrylate, 52
Ex vivo, 216
Examination gloves, 572, 755
Expanded polytetrafluoroethylene (e-PTFE), 187
Explant analysis, 354
Explanted, 712
External fixation, 216
Extractable free monomers, 5

Fabrication, 220
Failure, 354
Failure mechanisms, 534
Fascia, 596
Fatigue, 143, 251, 474
Fatigue crack propagation, 128
Fatigue failure, 741
Fatigue property, 135
Fatigue test, 297
Fibrinogen–thrombin mixtures, 315
Fibroblast growth factor, 621
Films, 881
Fixation force, 875
Fixture development, 829
Fluorapatite, 224
Fluorhydroxylapatite, 224
Four-point bend testing, 856
Fracture fixation pins, 528
Fracture toughness, 121, 540
Frictional heat, 458
FTIR, 172, 203, 675
FT-IR microspectroscopy, 660
FT-IR spectrophotometry, 700
FT-IR spectroscopy, 749
Functionalized dextran, 578

Gamma-irradiation, 640
Gelatin, 511, 631
Glass ionomer cement, 700
Glass surfaces, 640
Glaucoma, 591
Glove donning force, 797
Glove hole, 24
Glove hydration, 193
Glove thickness, 797
Green inner glove, 199
Growth factors, 602

Healing, 172
Heat treatment, 689, 791
Heat-kneading method, 108
Heat-treatment, 861
HEMA, 697
Heparin-like properties, 578
Hernia, 596
Hexane extraction, 203
High velocity oxy-fuel thermal spraying, 856
Hip prosthesis, 458
Hip simulator, 458
Histomorphometry, 393
Holes, 199
Human, 393
Human fibrin sealant, 315
Human knee, 482
Human monocytes, 246
Hyaluronic acid, 631
Hydrogen-bonding, 848
Hydrolysis, 342
Hydrophobicity, 848
Hydroxyapatite, 36, 117, 150, 216, 411, 841, 848, 861
Hydroxyapatite–glass composites, 734
Hydroxyethyl methacrylate, 52
Hydroxylapatite, 224, 403, 841
Hydroxylapatite coating, 741

Immunohistochemistry, 889, 899
Impingement, 534
Implant, 534
Implants, 187
Implant model, 172
In vitro, 117, 216
In vitro elution, 613
In vitro fertilization, 569
In vivo wear, 365
Indentation, 482
Infection, 27
Inflammation, 904
Interfacial membrane, 889
Interference screw, 70
Intrabone implantation, 289
Intraocular lenses, 814

Ion release, 778
Ion-exchange, 848
Isocyanatoacrylate copolymers, 496

Joint failure, 705
Joint replacement, 365

Klebsiella ozaenae, 869
Knot, 479
Knot break strength, 479

Latex, 755
Latex catheter, 27
Latex gloves, 24, 572
Latex surgical gloves, 797
Latex-free gloves, 24
Leaching, 540, 772
Leaching study, 814
Left ventricular assist device, 13
Light-cured composite resins, 675
Lipid uptake, 660
Liquid chromatography, 5

Machinable dental ceramic, 791
Machining, 374
Macrophage, 899
MC3T3-E1 cells, 108
Measurement technique, 705
Mechanical properties, 75, 150, 187, 235, 447, 528, 546
Mechanical property, 265
Mechanical strength, 734
Medical device failure, 559
4-META/MMA-TBB, 697
Metal ion release, 385
Metallic stents, 829
Metals, 786
Micromotion, 726
Microporous SPEU vascular graft, 235
Microporous structure, 546
Microstructure, 734, 791
Mixing method, 143
Modification with elastomeric particles, 121, 128
Monocyte migration inhibitory factor, 246
Morphology, 235
Mother of pearl (nacre), 749
MP35N, 251
MTT test, 488
Multi-specimen, 297

Neutral colored outer glove, 199
Nickel hypersensitivity, 488
Nickel-titanium, 488
Nickel-titanium alloy, 829
NiTiCu, 682

Nitrile, 572, 755
*N,N,*Dimethylamino 4-benzyl laurate (DML), 719

Orientation, 61
Orthodontic, 682
Orthopedic gloves, 193
Orthopedic implant retrieval, 385
Orthopedic prosthetics, 203
Orthopedics, 528
Osseointegration, 559, 841
Osteoblast, 322
Osteoblasts, 417
Osteoclast, 899
Osteoclasts, 417
Osteoconductivity, 265
Osteogenesis, 913
Osteolysis, 220, 434
Oxidation, 203

Pacing leads, 251
Parameters, 440
Partial deacetylation, 881
Particles, 61, 434
Particulate, 904
Patellar tendon autograft, 70
Pediatric fracture, 211
Photochemistry, 669
Photoreaction, 511
Physico-chemical properties, 546
Physis, 211
Plasma, 135, 640
Plasma spray, 841
Plasma spraying, 856
Plasma-sprayed coatings, 403
Platelet, 9
Platelet adhesion, 328
Pluronic surfactants, 640
Poly(anhydride-*co*-imide), 322
Polycarbonate urethane, 13
Polyester, 479
Polyester fibers, 534
Polyethylene, 75, 458, 474
Poly(ethylene glycol), 511
Polyethylene orthopedic implants, 365
Polyethylene oxide, 328
Poly(ethylene oxide) grafting, 640
Polyglycolic acid, 596
Polyglycolide, 342
Polylactide, 342
Poly-L-lactic acid, 70
Poly-L-lactide, 504
Polymerization shrinkage, 447
Polymerization temperature, 759
Poly(methylmethacrylate), 297
Polymethylmethacrylate, 814
Polyurethane, 546, 648
Polyvinyl chloride, 328, 572, 755
Porosity, 121, 128, 143, 861
Porosity–workability, 150
Porous ceramics, 117
Postmortem retrieval program, 385
Powder-free, 797
Powder-free gloves, 755
Press fit, 70
Pressurization, 43
Proliferation, 322
Prosthesis, 440
Prosthetic materials, 465
Protein precipitation, 465
Proteoglycans, 99
Puncture resistance, 193, 572, 797
Pure titanium, 778

Quality control, 569

Rabbit, 9
Rabbit model, 621
Radiation, 669
Ram extrusion, 374
Raman scattering, 675
Rats, 32
Reactivity, 117
Reactivity parameters, 496
Reinforcement, 135, 546
Residual monomer, 447
Resin monomers, 277
Resin-modified glass ionomer, 277
Resin-modified glass ionomer cement, 700
Restenosis, 669
Retinal detachment surgery, 807
Retrieval study, 705
Reversibility, 848
Rheology, 43
Rough surface, 417
Rupture, 354

Sagging, 258
Saturated steam, 111
Scaffold, 602
Scanning electron microscopy, 411
Scleral buckling, 807
Segmented polyetherurethane (SPEU), 235
Self-curing dental sealants, 5
Serum protein lubrication, 465
Shape memory, 682
Shape memory nickel-titanium stents, 165
Shear bond strength, 496
Shear strength, 32
Silane, 833
Silica coatings, 778
Silicone gel breast implants, 354
Silicone implant complications, 354
Silicone rubber, 765
Single-gloving, 797
Single-hit mechanism, 640
Sinus lift, 393
Small punch test, 75
Soft tissue fixation, 875
Sol-gel, 424
Sol-gel dipping, 778
Solubility, 111, 841
Solubility parameters, 496
Spinal metastasis, 82
Spinal stabilization, 82
Sponge, 631
Stainless steel, 829
Standard surgical glove, 193
Stem cell, 913
Stiffness, 482
Storage, 881
Storage temperature, 143
Strain gauge, 32
Stress, 9
Structure, 187
Subsurface yellowing, 159
Superelasticity, 682
Surface analysis, 648
Surface orientation, 848
Surface peroxide, 135
Surface roughness, 301, 705
Surface spectroscopy, 559
Surface topography, 440, 712
Surface treatments, 165
Surfactants, 765
Surgical gloves, 199, 569
Suture, 596
Suture anchor, 875
Synthetic gloves, 572, 755

Tactile discrimination, 193
Teflon AF, 814
Temperature, 465
Tensile set, 27
Tensile test, 689
Tensile testing, 856
Tertiary amine activator, 719
Thermal analysis, 258
Thermal behavior, 749
Thermal creep, 258
Thermal effect, 159
Thin film, 424
TiAlV debris, 220
Tissue culture, 913
Tissue engineering, 322, 504, 602
Tissue response, 36
Titanium, 90, 559

Titanium alloy, 689
Torque, 216
Total hip arthroplasty, 43, 301, 712, 759, 889
Total hip replacement, 220, 899
Total joint replacement, 385
Tricalcium phosphate, 52, 734

UHMWPE, 61, 159
Ultrahigh molecular weight polyethylene, 203, 434
Ultrahigh molecular weight polyethylene (UHMWPE), 365, 374

Vanadium, 90
Vascular graft, 172, 546, 660
Vascularization, 411
Ventral hernia, 596
Ventricle, 13, 648
Vertebral body replacement, 82
Viral penetration, 755
Viscosity, 111
Vitamin E, 474

Water transmission rate, 13
Wear, 61, 301, 374, 458, 705, 712
Wear debris, 904
Wear test, 465
Wettability, 765
Wound closure, 315
Wound contraction, 621
Wound dressing, 522, 631
Wound healing, 621

Xanthene dye, 511
X-ray diffraction, 749, 791

Zeeman background corrected atomic absorption spectrometry, 90
Zirconia, 424
Zirconia ceramic, 301